Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 209-301-E28

# Retinoid X Receptor gamma Antibody

## Overview

| | |
|---|---|
| **Description:** | Anti-Retinoid X Receptor gamma (MOUSE) Monoclonal Antibody - 209-301-E28 |
| **Item No.:** | 209-301-E28 |
| **Size:** | 100 µL |
| **Applications:** | WB |
| **Reactivity:** | Human, Rat |
| **Host Species:** | Mouse |

## Product Details

| | |
|---|---|
| **Background:** | Retinoic acid (RA; active metabolite of vitamin A) plays a prominent role in regulating the transition of proliferating precursor cells (such as carcinoma cells and neuronal precursors) to postmitotic differentiated cells. The Retinoid X Receptors (RXRs) family (RXRα, β and γ) preferentially bind 9-cis-RA and regulate gene transcription by forming heterodimers with a second family of RA receptors. RAs have been suggested to potentially play a therapeutic role in cervical cancer. RAs are known to play key roles in neuronal development and an increasing body of evidence indicates that retinoid signaling may regulate synaptic plasticity and associated learning and memory behaviors. |
| **Synonyms:** | mouse anti-Retinoid X Receptor gamma Antibody, mouse anti-RXRG antibody, Nuclear receptor subfamily 2 group B member 3, Retinoid X receptor gamma |
| **Host Species:** | Mouse |
| **Clonality:** | Monoclonal |
| **Clone ID:** | 1373 |
| **Format:** | IgG1 |

## Target Details

| | |
|---|---|
| **Gene Name:** | RXRG |
| **Reactivity:** | Human, Rat |
| **Immunogen Type:** | Conjugated Peptide |

| | |
|---|---|
| **Immunogen:** | Anti-Retinoic Acid Receptor gamma was produced by repeated immunizations with a synthetic peptide corresponding to amino acid residues from the hinged region of RAR-γ. |
| **Purity/Specificity:** | Anti-Retinoic Acid Receptor gamma antibody detects Retinoic Acid Receptor gamma. Retinoic Acid Receptor gamma antibody was Protein G purified from cell culture supernatant. This antibody is directed against human retinoic acid receptor gamma protein. Reactivity is expected from the following species based on 100% sequence homology: bovine, mouse, non-human primate and rat. Cross reactivity to other sources has not been tested. |
| **Relevant Links:** | • UniProtKB - P48443<br>• GeneID - 6258<br>• UniProtKB - P48443.1 |

## Application Details

| | |
|---|---|
| **Tested Applications:** | WB |
| **Application Note:** | Anti-Retinoid X Receptor gamma antibody is tested for use in Western Blotting to detect a single band at approximately 48 kDa corresponding to the RXR-γ isotype in the appropriate cell lysate or extract. Researchers should determine optimal titers for applications that are not stated below. |
| **Assay Dilutions:** | All assays should be optimized by the user. Recommended dilutions (if any) may be listed below. |
| **WB:** | 1:1000 |

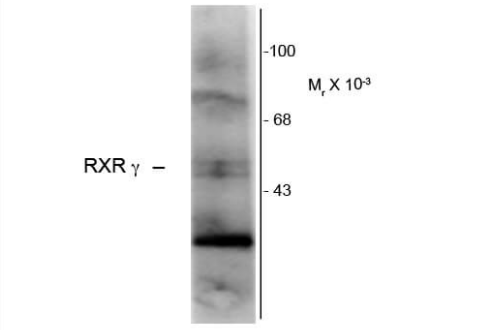
## Formulation

| | |
|---|---|
| **Physical State:** | Liquid |
| **Buffer:** | 0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5 |
| **Stabilizer:** | 0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol |

## Shipping & Handling

| | |
|---|---|
| **Shipping Condition:** | Dry Ice |
| **Storage Condition:** | Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use. |
| **Expiration:** | Expiration date is one (1) year from date of receipt. |

## Images




Western blot of hippocampal lysate showing specific immunolabeling of the ~48k RXR-γ protein.

**Western Blot**

Western Blot of Mouse anti-Retinoid X Receptor gamma antibody. Lane 1: hippocampal lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Retinoid X Receptor gamma antibody at 1:1,000 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 48 kDa for Retinoid X Receptor gamma. Other band(s): Retinoid X Receptor gamma splice variants and isoforms.

## Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.